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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,408	(	08/29/2001	001 Hiroshi Furukawa		8573
2352	7590	11/22/2004		EXAM	INER
OSTROLE	NK FAB	ER GERB & SOI	PEZZLO, JOHN		
1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403				ART UNIT	PAPER NUMBER
	,			2662	· · · · · · · · · · · · · · · · · · ·

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No. Applicant(s)						
		09/942,408	FURUKAWA ET /	FURUKAWA ET AL.				
	Office Action Summary	Examiner	Art Unit					
		John Pezzlo	2662					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)□	Responsive to communication(s) filed on							
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
<ul> <li>4)  Claim(s) 1-127 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) 1-127 are subject to restriction and/or election requirement.</li> </ul>								
Applicat	ion Papers							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen		_						
2)  Notice 3)  Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTo	O-152)				

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1, 30-32, 37, 63-65, 85, 114-116, 123, and 124, drawn to determining a wireless transmission based on the minimum path loss, classified in class 370, subclass 252.
- II. Claims 2-29, 38-62, 70-81, 86-113, 120-122, and 125-127 drawn to routing a signal based on metrics, classified in class 709, subclass 241.
- III. Claims 33-36, 66-69, 82-84, and 117-119 drawn to use of multiple frequency bands for relaying information, classified in class 455, subclass 447.

The inventions are distinct, each from the other because of the following reasons:

Inventions I., II., and III. are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because each group can function without the particulars of the other two groups. The subcombination has separate utility such as least cost routing, frequency allocation, and path loss determination.

Art Unit: 2662

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I. is not required for Group II., or Group III. restriction for examination purposes as indicated is proper.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(703) 872-9306

Art Unit: 2662

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

Jefferson Building, 2A15

500 Dulany Street

Arlington, VA. 22313

John Pezzlo

18 November 2004

JOHN PEZZLO PRIMARY EXAMINER